MANF4100

flexible, agile and interdisciplinary approach is required to bring product to the market successfully and in less time, using appropriate technology and operations management. The course teaches this approach, at the manufacturing system and factory level, based on global best-practice methodologies, industry lecturers, and incorporates case studies and projects, to apply these methodologies and become proficient at them.

Student learning outcomes

This course is designed to address the learning outcomes below and the corresponding Engineers Australia Stage 1 Competency Standards for Professional Engineers as shown. The full list of Stage 1 Competency Standards may be found in Appendix A.

After successfully completing this course, you should be able to:

Learning Outcome		**EA Stage 1 Competencies**
1.	Understand and apply systematic design principles as part of designing manufacturing systems and factories.	PE1.1, PE1.5, PE1.6
2.	Use appropriate analytical techniques, including Linear Programming to plan, specify and design a manufacturing system or, for that matter, a business process.	PE1.1, PE2.2, PE2.3
3.	Understand data and information flow within a factory system and how this affects decision making, efficiency and effectiveness of the manufacturing operation.	PE1.1, PE1.2, PE2.1
4.	Understand, implement and manage key manufacturing improvement strategies including lean manufacturing.	PE2.4, PE3.2, PE3.3

Lectures in the course are designed to cover the terminology and core concepts and theories in the area of manufacturing process design. They do not simply reiterate

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02/05/17 (Week 9)	Transportation Models	x Formulating a Transportation problem x Northwest Corner Method
09/05/17 (Week 10)	Aggregate Planning and Production Scheduling	x Sales and Operations Planning x Aggregate Planning Methods x Master production schedule x Level Production
16/05/17 (Week 11)	Materials Requirements Planning	x Material requirements planning x Enterprise resource planning x MRP explosion x Order quantities analysis x Lean production
23/05/17 (Week 12)	Project Presentation	x Project Presentation
30/05/17 (Week 13)	Course Revision	

Examinations

You must be available for all tests and examinations. Final examinations for each course are

Further information on School policy and procedures in the event of plagiarism is available on the intranet.

8. [illegible]

All students are expected to read and be familiar with School guidelines and polices, available on the intranet. In particular, students should be familiar with the following:

- Attendance, Participation and Class Etiquette
- UNSW Email Address
- Computing Facilities
- Assessment Matters (including guidelines for assignments, exams and special consideration)
- Academic Honesty and Plagiarism
- Student Equity and Disabilities Unit
- Health and Safety
- Student Support Services

Ron Chan & Erik van Voorthuysen
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